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Robust vehicle routing problem with hard time windows under demand and travel time uncertainty

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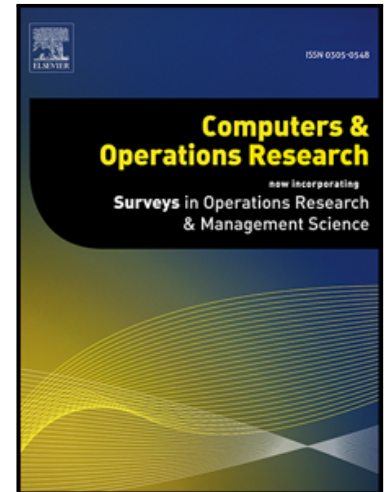
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Highlights

- A robust version of the VRPTW with demand and travel time uncertainty is studied.
- A two-stage algorithm based on a modified AVNS heuristic is developed.
- The robust solutions can greatly improve the route robustness by adding little cost.
- Managerial insights are derived for decision-makers in the logistics industry.

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